



## Biography

### Dr. Qian Lin

HP Fellow & VP – HP AI and Emerging Compute Lab  
HP Inc.

---



Dr. Qian Lin is a research scientist in the AI and Emerging Compute Lab within HP Labs. She is also an Adjunct Full Professor of Electrical and Computer Engineering, Purdue University. Her research areas include artificial intelligence, computer vision, and deep learning, with applications in Machine Learning Solutions, Print Workflow and Print Quality, and 3D Printing.

Dr. Lin led the research and development of HP Pixel Intelligence, an analytics engine for understanding visual information. Developed using the latest deep learning approach for training convolutional neural networks, HP Pixel Intelligence aims to solve HP customer business challenges in industry verticals. Dr. Lin collaborated broadly with technologists, marketing managers, and business leaders across HP businesses to bring the technologies to HP customers. Today, HP's top accounts provide better print experience for their customers with the help of HP Pixel Intelligence.

During her 27+ years at HP, Dr. Lin contributed to a number of key technologies in HP products, as well as mentored and developed engineers and students in imaging and computer vision in HP and partner research organizations. Her first research project at HP was the development of halftoning technologies for HP printers. She invented the adaptive halftoning technology, which produced output with high image quality for HP's Enterprise and Professional LaserJet and Multifunction Printers. She also worked on digital camera imaging pipeline and co-invented new capture capabilities with panorama stitching and automatic red-eye correction. HP's digital cameras were the first in industry with embedded computation to support these capabilities. Later, she contributed to the image analysis and composition for HP's Digital Publishing Solutions, as well as image and video analytics for HP's Enterprise Software.

Dr. Lin joined the Hewlett-Packard Company in 1992. She received her BS from Xi'an Engineering from Stanford University. Dr. Lin is an inventor with 45 issued patents. She was awarded Fellowship by the Society of Imaging Science and Technology (IS&T) in 2012, and Outstanding Electrical Engineer by the School of Electrical and Computer Engineering of Purdue University in 2013.